

# New York State Department of Transportation

## Yellow Flag NB2358W004

By: Alex Abreu

Flag Date: April 20, 2023

Superseding Information:

No Flags Superseded

### Structure Information

**BIN: 1065318**

**Feature Carried: 278I278IX2M23027**

**Feature Crossed: 6TH AVENUE**

**Orientation: 8 - NORTHWEST**

**Region: 11 - NEW YORK CITY**

**County: KINGS**

**Political Unit: City of NEW YORK**

**Approximate Year Built: 1962**

**Posted Load Matches Inventory : Yes**

**Bridge Load Posting (Tons) : Not Posted for Load**

**Primary Owner: New York State Department of Transportation**

**Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party**

**Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder**

**This Bridge is not a Ramp**

**Number of Spans: 322**

### Verbal Notification Information

**Person Notified: Heinz Joachim, P.E.**

**Date: April 21, 2023 3:00:00 PM**

**Of: NYSDOT Region 11**

### Signature Information

**Signature: Alex Abreu, P.E. 099761-1**

**Date: May 01, 2023**

**Reviewed By: Robert Kemp**

**Date: May 02, 2023**

**Attachments: 6**



**Flagged Elements**

Parent Element	Element	Total Quantity	Unit
<b>Span Number : 21</b>			
	107 - Steel Open Girder/Beam	956	ft

**Flagged Condition Description**

This Yellow Flag No. NB2358W004 is NEW.

Location: Span 21, Girder G16 at Pier 21 above the right lane of 65th Street EB roadway between 4th and 5th Avenue.

**Description:**

The end of Girder G16 on the Span 21 Side of Pier 21 exhibits a 6" long vertical thru crack in the girder web starting at the top cope adjacent to the guide angle (Photos 5 and 6) and is in the upper web above a previous repair to the lower web above the bearing (refer to Yellow Flag Condition sketch #2 for more details).

The web area above the bearing and above the channel repair exhibits 3/8" remaining thickness measured (RTM) for full web height along the guide angle for 19.5"H x 2"W and 1/4"-3/8" RTM in the upper web at the top cope for 14"H x 4"W with 5"H x 2"W corrosion hole within the section loss area (Photo 5).

This is a newly flagged condition.

**Notes:**

1. This girder location has previously installed steel reinforcement channel repair approximately 9.5" high in the lower web above the bearing which is in good condition (Photo 4).
2. Adjacent Girders G15 and G17 have previously installed steel reinforcement channel repairs which are in good condition.
3. A single lane closure in the right lane on EB roadway and 30ft bucket truck are required to access this location.
4. The previous 2021 Biennial Report did not have any documentation for the above girder location.



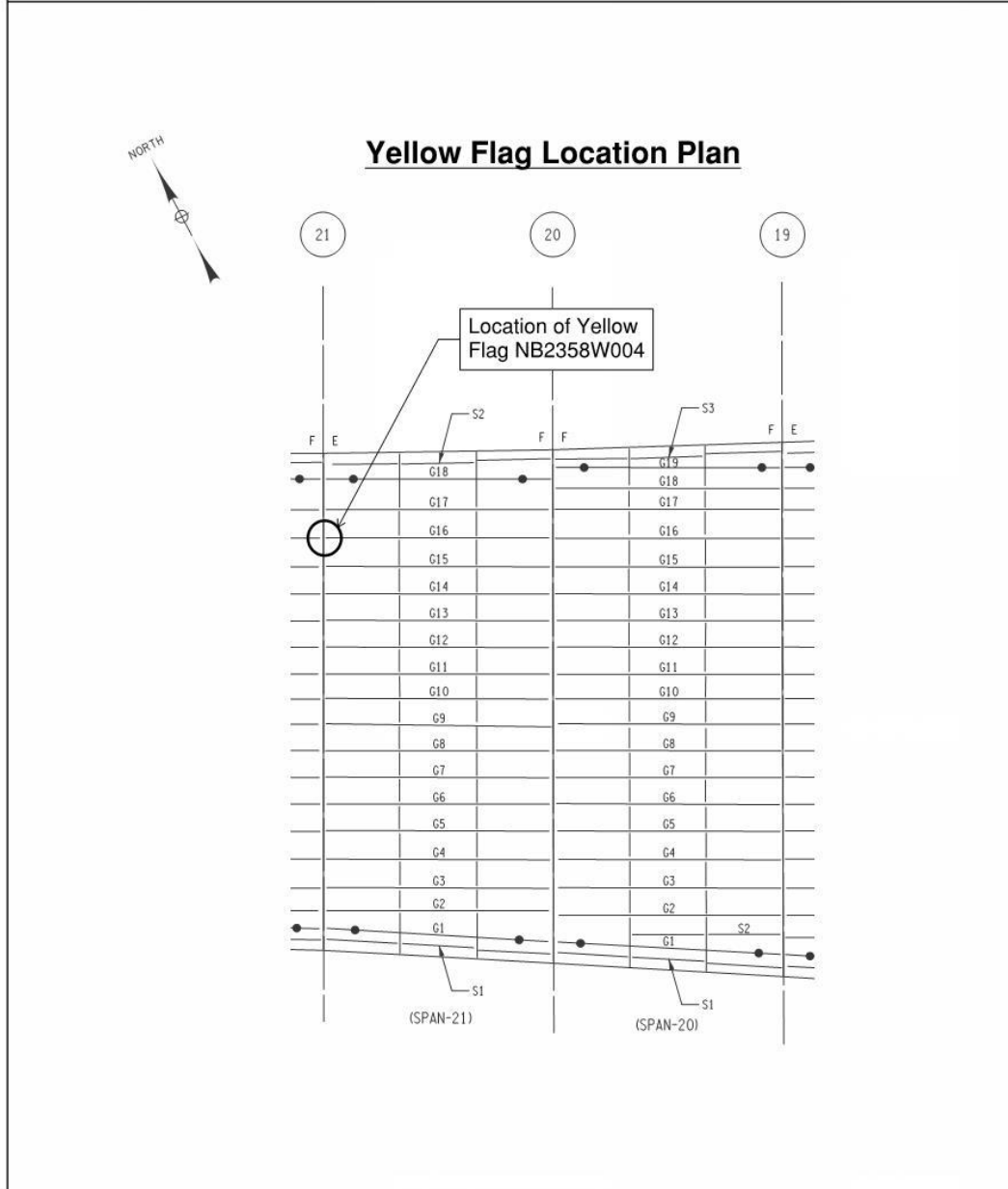
**Flag Photographs**Photo Number: **1**Photo Filename: **23\_Flag Location Plan.jpg**Gowanus Expressway  
2023 Biennial Inspection - Field SketchBIN: 1065318Team: AA/TSDate: 04/20/2023Span: 21Location: Girder G16 at Pier 21**Attachment Description: Flag Location Plan**



Photo Number: 2

Photo Filename: 23\_Span 21\_Pier 21\_Girder G16\_Connection Detail.

Gowanus Expressway  
2022 Biennial Inspection - Field Sketch

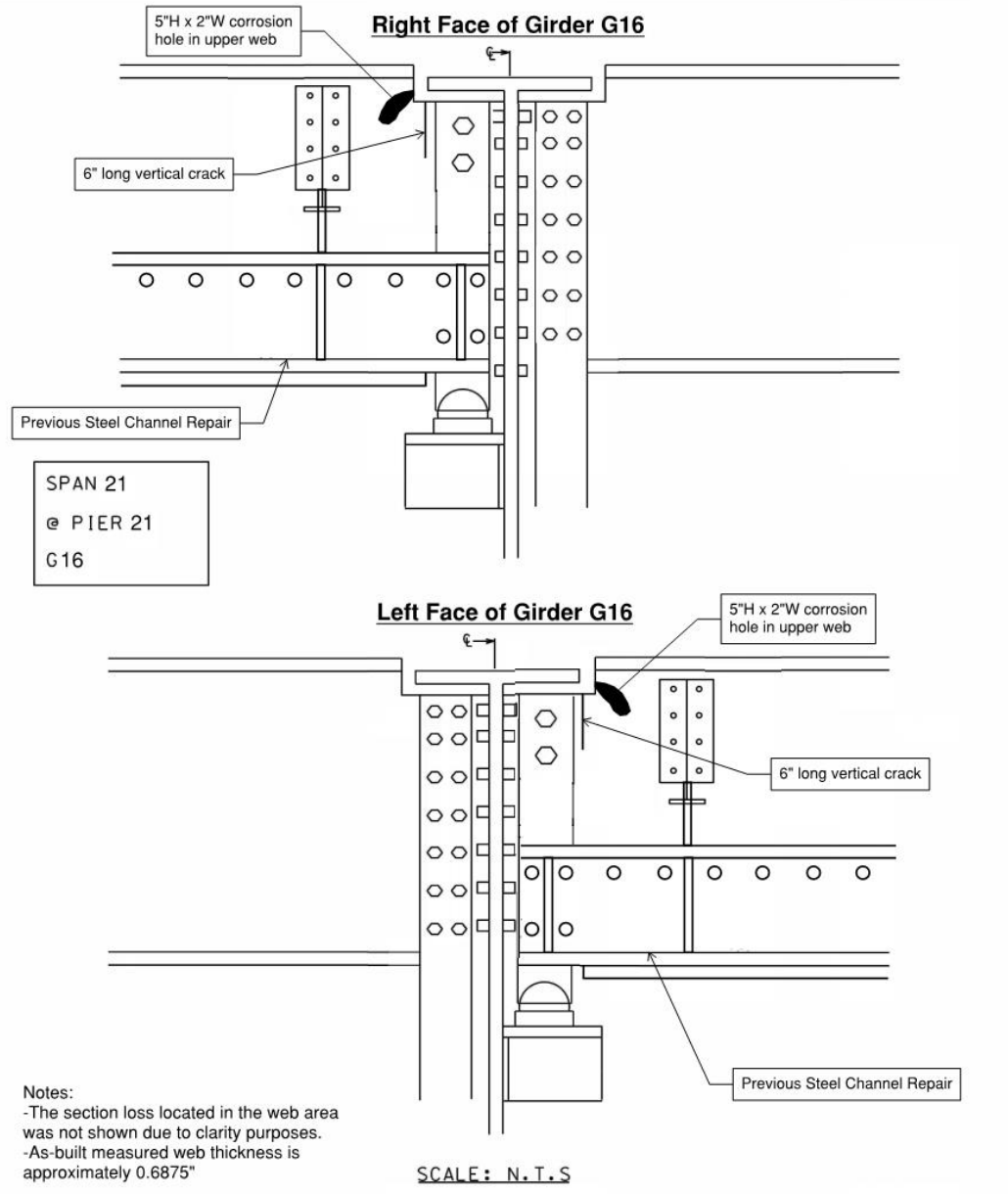
BIN: 1065318

Team: AA/TS

Date: 4/20/2023

Span: 21

Location: Girder G16 at Pier 21



wsp

**Attachment Description: Flag Condition Sketch**



Photo Number: 3

Photo Filename: 23\_113\_6359.JPG



**Attachment Description:** General view of the flagged location at Girder G16 in Span 21 at Pier 21. Looking End.



Photo Number: 4

Photo Filename: 23\_113\_6342.JPG

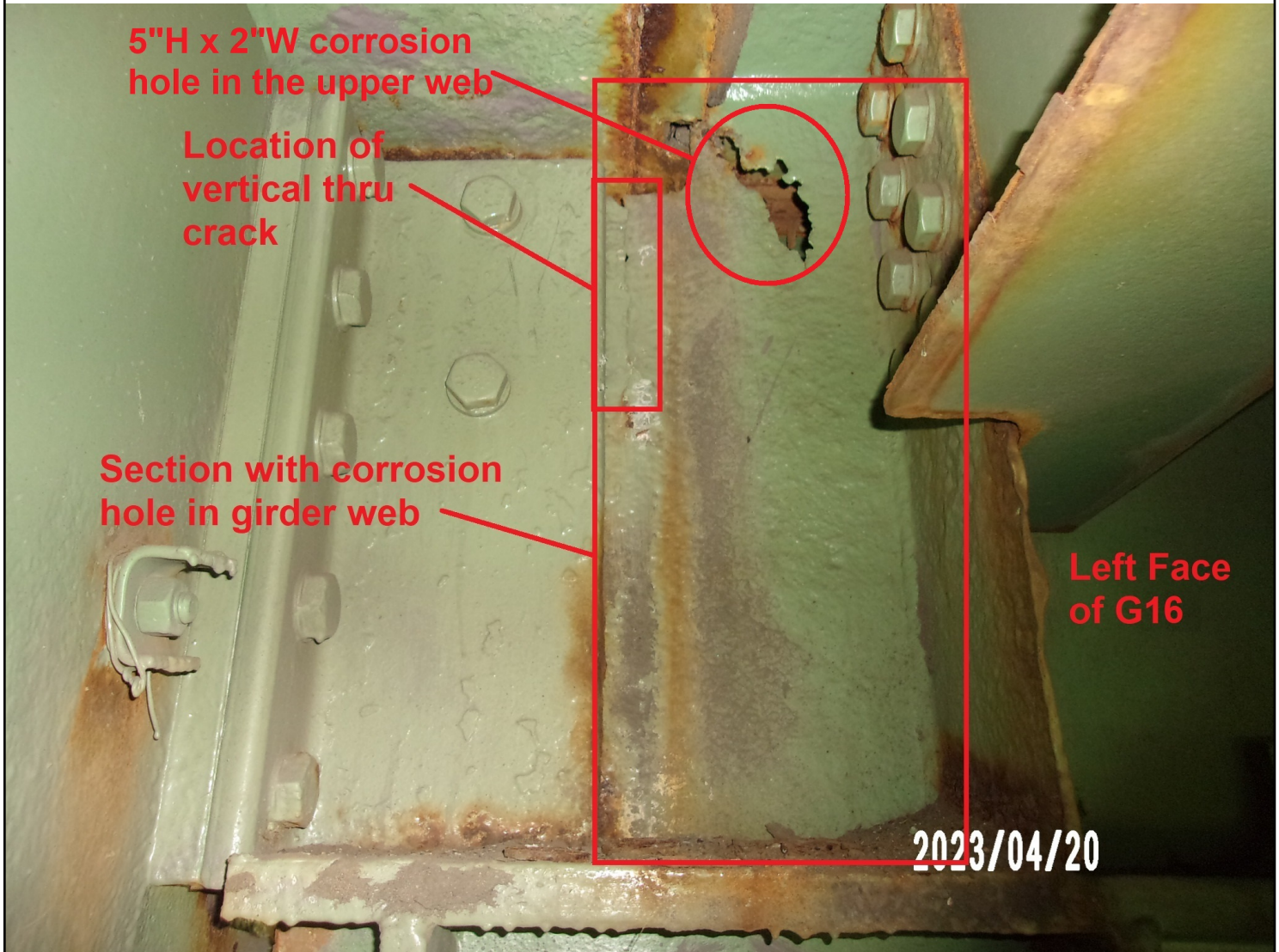


**Attachment Description:** General view of the left face of Girder G16 in Span 21 at Pier 21. The girder end has previously installed steel reinforcement channels in the lower web above the bearing which are in good condition. Looking Right.



Photo Number: 5

Photo Filename: 23\_113\_6343.JPG



**Attachment Description:** The left face of Girder G16 in Span 21 at Pier 21. The girder web exhibits 6" long vertical thru crack starting at the top cope. Also, the girder web area above the steel repair channels exhibits section loss with remaining thickness measured ranging from 1/4"-3/8" with corrosion hole in the upper web. Looking Right.



Photo Number: 6

Photo Filename: 23\_113\_6358.JPG



**Attachment Description:** The left face of Girder G16 in Span 21 at Pier 21. Close up view of the 6" long vertical thru crack in the girder web starting at the top cope. Looking Right.